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Inventor(s): Jifan Hu et al.
Serial No.: 09/643,128
Filing Date: August 21, 2000
Attorney: Barbara J. Luther
Docket No.: GMR-001
Title: "GENE INACTIVATION BY TARGETED DNA METHYLATION"

Papers filed:

1. Return Postcard
2. Transmittal Letter (1 page)
3. Information Disclosure Statement (3 pages)
4. Form PTO-1449 (2 pages)
5. Copies of 36 References

Via First Class Mail – April 18, 2003 (kmt) to: Director of Patents

03 AUG 21 11 45 AM

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APR 28 2003

USA PATENT GROUP INC.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE **#14/I.D.S.**

Group Art Unit: 1645

Examiner: Not Yet Assigned

Serial No.: 09/643,128

Filed: August 21, 2000

In re Application of: Jifan Hu et al.

For: GENE INACTIVATION BY TARGETED DNA METHYLATION

03 AUG 21 PM 4:49

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail, in an envelope addressed to Director of Patents, Washington, D.C. 20231 on April 18, 2003. Signed Krista Thompson
Krista Thompson

INFORMATION DISCLOSURE STATEMENT

Director of Patents
Washington, D.C. 20231

Dear Sir:

Each item of information listed in the attached FORM PTO-1449, for which a copy of each is attached, may be material to the examination of the above-identified application and is, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR §§1.56, 1.97 and 1.98. The Examiner is requested to make these items of official record in this application.

This Information Disclosure Statement under 37 CFR §§1.56, 1.97 and 1.98 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these items constitutes prior art.

I

This statement is filed pursuant to:

(X) 37 C.F.R. §1.97(b).

This information disclosure statement is filed either (1) within three months of the filing date of the national applications; (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application; or (3) before the mailing date of a first office action on the merits, whichever event occurs last.

Accordingly, this information disclosure statement requires no fee and no certification.

() 37 C.F.R. §1.97(c).

This information disclosure statement is filed after the period specified in 37 C.F.R. §1.97(b), but before the mailing date of either (1) a final action under 37 C.F.R. §1.113 or (2) a notice of allowance under 37 C.F.R. §1.311.

Accordingly, this information disclosure statement requires either the fee specified in 37 C.F.R. §1.17 (p) or a certification according to 37 C.F.R. §1.97(e).

() 37 C.F.R. §1.97(d).

This information disclosure statement is filed after the period specified in 37 C.F.R. §1.97(c).

Accordingly, this information disclosure statement requires the fee specified in 37 C.F.R. §1.17(p), \$180.00, for submission of an information disclosure statement under 37 C.F.R. §1.97(d), and a statement according to 37 C.F.R. §1.97(e).

37 C.F.R. §1.97(e).

- () (1) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement.

- () (2) No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c), more than three months prior to the filing of the statement.

Accordingly, this information disclosure statement requires the fee specified in 37 C.F.R. §1.17(p), \$180.00, for submission of an information disclosure statement under 37 C.F.R. §1.97(e).

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. §1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record. To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.

II

(X) No fee is due.

() The fee specified in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under 37 C.F.R. §1.97(c), 37 C.F.R. § 1.97(d), or 37 C.F.R. §1.97(e) is enclosed, \$180.00.

In the event any fee is required for filing the above-noted document, including any fees required under 37 CFR 1.136 for any necessary Extension of Time to make the filing attached document timely, the Assistant Commissioner is hereby authorized to charge the fee to our Deposit Account No. 50-0612. A duplicate of this page is enclosed.

Respectfully submitted,
SIERRA PATENT GROUP, LTD.

Dated: April 18, 2003

Barbara J. Luther

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#14/I.D.S

Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. GMR-001		Serial No. 09/643,128 AUG 21 1999	
Information Disclosure Statement by Applicant				Applicant: Jifan Hu et al.			
(Use several sheets if necessary)				Filed: August 21, 2000 Group: 1645			
U.S. Patent Documents							
Init.	1	Document No.	Date	Name	Class	Subclass	Filing Date
	1	4,507,466	03/26/1985	Tomalia et al.	528	332	01/07/1983
	2	4,558,120	12/10/1985	Tomalia et al.	528	363	12/27/1983
	3	4,568,737	02/04/1986	Tomalia et al.	528	332	08/17/1984
	4	4,587,329	05/06/1986	Tomalia et al.	528	363	07/19/1985
	5	4,591,614	05/27/1986	Miller et al.	525	54.11	04/30/1984
	6	4,631,337	12/23/1986	Tomalia et al.	528	391	07/15/1985
	7	4,694,064	09/15/1987	Tomalia et al.	528	332	02/28/1986
	8	4,713,975	12/22/1987	Tomalia et al.	73	865.8	05/30/1986
	9	4,737,550	04/12/1988	Tomalia	525	418	12/08/1986
	10	4,857,599	08/15/1989	Tomalia et al.	525	259	02/08/1988
	11	4,871,779	10/03/1989	Killat et al.	521	28	12/23/1985
	121	5,112,963	05/12/1992	Pieles et al.	536	27	11/14/1988
	13	5,503,975	04/02/1996	Smith et al.	435	6	06/22/1992
	14	5,656,612	08/12/1997	Monia	514	44	06/02/1995
	15	5,705,389	01/06/1998	Braham et al.	435	375	11/18/1994
	16	5,786,146	07/28/1998	Herman et al.	435	6	06/03/1996
	17	5,840,497	11/24/1998	Holliday	435	6	02/05/1996
	18	5,856,462	01/05/1999	Agrawal	536	24.5	09/10/1996
	19	5,874,416	02/23/1999	Sheikhnejad	514	44	11/07/1997
	20	5,919,772	07/06/1999	Szyf et al.	514	44	06/07/1995
	21	6,001,651	12/14/1999	Bennett et al.	435	375	03/20/1998
	22	6,008,200	12/28/1999	Krieg	514	44	02/07/1995
	23	6,017,704	01/25/2000	Herman et al.	435	6	04/11/1997
	24	6,020,318	02/01/2000	Szyf et al.	514	44	05/30/1997
Examiner					Date Considered		
Examiner: Initial if citation considered, whether or not citation is in conference with MPEP 609; Draw line through citation if not conformance and not considered. Include a copy of this form with the next communication to applicant.							

Form PTO 1449 (Rev. 2-32)				U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. GMR-001		Serial No. 09/643,128	
Information Disclosure Statement by Applicant						Applicant: Jifan Hu et al.			
(Use several sheets if necessary)						Filed: August 21, 2000 Group: 1645			
U.S. Patent Documents									
Init.		Document No.	Date	Name	Class	Subclass	Filing Date		
Foreign Documents									
								Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No	
	24	WO 93/24640 A2 & A3	12/09/1993	PCT (US)	C12N	15/85		X	
	25	WO 96/18372 A2 & A3	06/20/1996	PCT (US)	C07J (A3 listing)	41/00		X	
	26	WO 97/44346	11/27/1997	PCT (Canada)	C07H	21/00		X	
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)									
	27	A. Weissbach et al., "The Effect of flanking sequences on the <i>DE NOVO</i> Methylation of C-G pairs by the Human DNA Methylase", <u>Biochemistry and Biology of DNA Methylation</u> , pp. 79-94, Alan R. Liss, Inc. 1985 (no month).							
	28	H. Gao et al., "Stabilization of double-stranded oligonucleotides using backbone-linked disulfide bridges", <u>Nucleic Acids Research</u> , Vol. 23, No. 2, pp. 285-292, January 1995.							
	29	S. Pradhan et al., "CG and CNG methyltransferases in plants", <u>Gene</u> , Vol. 157, pp. 289-291, 1995 (no-month).							
	30	J. Hu et al., "Differential Biallelic Activation of Three Insulin-Like Growth Factor II Promoters in the Mouse Central Nervous System", <u>Molecular Endocrinology</u> , Vol. 9, No. 5, pp. 628-636, May 1995.							
	31	S. Saitoh et al., "Minimal definition of the imprinting center and fixation of a chromosome 15q11-q13 epigenotype by imprinting mutations", <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 93, pp. 7811-7815, July 1996							
	32	J. Hu et al., "Repression of hepatitis B virus (HBV) transgene and HBV-induced liver injury by low protein diet", <u>Oncogene</u> , Vol. 15, pp. 2795-2801, December 1997.							
	33	J. Hu et al., "Tissue-Specific Imprinting of the Mouse Insulin-Like Growth Factor II Receptor Gene Correlates with Differential Allele-Specific DNA Methylation", <u>Molecular Endocrinology</u> , Vol. 12, No. 2, pp. 220-232, February 1998.							
	34	Y. Birger et al., "The imprinting box of the mouse <i>lgf2r</i> gene", <u>Nature</u> , Vol. 397, pp. 84-88, January 7, 1999							
	35	M. Frevel et al., "A potential imprint control element identification of a conserved 42 bp sequence upstream of H19", <u>TIG</u> , Vol. 15, No. 6, pp. 216-218, June 1999.							
	36	T. Vu et al., "Symmetric and Asymmetric DNA Methylation in the Human IGF2-H19 Imprinted Region", <u>Genomics</u> , Vol. 64, pp. 132-143, 2000 (no month).							
Examiner						Date Considered			
Examiner: Initial if citation considered, whether or not citation is in conference with MPEP 609; Draw line through citation if not conformance and not considered. Include a copy of this form with the next communication to applicant.									